

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G11B20/00 G06F1/00 H04L9/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G11B G06F H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>US 5 949 877 A (TRAW ET AL) 7 September 1999 (1999-09-07) abstract figures 1a-1c,3,4 column 1, line 42 - line 48 column 1, line 62 - line 67 column 2, line 48 - column 3, line 9 column 3, line 34 - line 43 column 4, line 3 - line 11 column 4, line 26 - line 48 column 4, line 63 - column 8, line 28 column 11, line 48 - column 12, line 34 claim 1</p> <p>----- -/--</p>	1-9

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

22 March 2005

Date of mailing of the international search report

30/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Kopp, K

INTERNATIONAL SEARCH REPORT

International Application No

.../JP2004/019488

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 03/096339 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD) 20 November 2003 (2003-11-20) page 1, line 26 - page 3, line 3 page 3, line 18 - page 7, line 24 page 9, line 25 - line 26 page 10, line 1 - line 2 page 10, line 7 - page 11, line 12 page 11, line 25 - page 17, line 16 page 18, line 25 - page 19, line 6 page 24, line 18 - page 26, line 20 page 54, line 22 - page 55, line 12 figures 4,6,9-17</p>	1-9
A	<p>US 6 442 626 B1 (SMOLA MICHAEL ET AL) 27 August 2002 (2002-08-27) abstract column 2, line 66 - column 3, line 62 claims 2,3</p>	1-9
A	<p>EP 1 349 034 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD) 1 October 2003 (2003-10-01) abstract paragraph '0001! - paragraph '0002! paragraph '0005! paragraph '0007! - paragraph '0008! paragraph '0014! - paragraph '0016! paragraph '0018! paragraph '0029! paragraph '0031! - paragraph '0036! paragraph '0094! - paragraph '0099! paragraph '0103! - paragraph '0105! paragraph '0108! - paragraph '0109!; figures 1,5,11,13</p>	3

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

JP/JP2004/019488

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5949877	A	07-09-1999	US 2002007452 A1	17-01-2002
WO 03096339	A	20-11-2003	AU 2003224457 A1	11-11-2003
			WO 03096339 A2	20-11-2003
			JP 2004032706 A	29-01-2004
			US 2004003239 A1	01-01-2004
US 6442626	B1	27-08-2002	GB 2345361 A ,B	05-07-2000
EP 1349034	A	01-10-2003	CN 1445707 A	01-10-2003
			EP 1349034 A2	01-10-2003
			JP 2003338816 A	28-11-2003
			US 2003177363 A1	18-09-2003